

SUBJECT INDEX

Vol. 141C, Nos. 1-4

- AChe, 412
 Acute hyperthyroidism, 241
 Adrenoceptor, 241
 Adriatic Sea, 366
 Aerobic capacity, 356
Aeromonas sp., 76
 Affinity chromatography, 145
 Age, 15
 AhR, 40
 AHR nuclear translocator, 281
 AHR1, 177
 AHR2, 177
 Air-breathing behavior, 275
 Alexipharmic courses, 248
 Algae, 110
 Alkylphenol, 267
 Ammonia, 145
 Amphibians, 384
 Androgen receptor, 101
 ANF, 40
 Anti-androgen, 101
 Anticonvulsants, 50
 Anti-estrogen, 101
 Anti-inflammatory drugs, 332
 Antimicrobial peptide, 393
 Aorta, 241
 Apoptosis, 157, 194, 225
 Aroclor 1254, 8
 Aromatase inhibitor, 101
 Artificial bilayers, 207
 Aryl hydrocarbon receptor, 40, 281
 Atlantic salmon, 217, 314

 Bacterial agglutination, 76
 Baculovirus, 338
 Baikal seal, 281
 Bax and Bcl-2, 225
 Benzo[a]pyrene hydroxylase, 20
 Benzo(k)fluoranthene, 248
 BFC, 338
 Bicarbonate, 1
 Binding inhibition, 50
 Biomarker, 248
 Biomarkers, 188, 217, 356
 Biomonitoring, 356
 BKF toxicity, 248
 Blood pressure, 85
 BNF, 40
Bothrops alcatraz, 117
 Bursts of potential, 58

 Cadmium, 15, 151, 306
 cAMP, 58, 257
 CarE, 412
 Catalase, 194, 292, 366
 Catecholamines, 85
 cDNA cloning, 168
 Cell line, 157
 Cell membrane, 207
 Channel formation, 207
 Chaperones, 398
Chattonella marina, 297
Cheiracanthium, 32
 Chicken, 69, 225
Chlamys farreri, 248
 Chloride replacement, 1
 CHSE-214, 157
Clarias batrachus, 76
 Colon, 1
 Common carp, 325
 Copper, 151, 306
 Copper toxicology, 375
 CpG methylation, 406
Crassostrea gigas, 151
 Creosote, 406
Crotalus scutulatus scutulatus, 124
 Cyclooxygenase, 332
 CYP1A, 20, 177, 217, 281
 CYP1B, 281
 CYP3A, 338
 Cytochrome *b*₅, 20
 Cytochrome C oxidase, 356
 Cytochrome P450, 338
 Cytochrome P450 monooxygenase system, 20
 Cytochrome P4501A, 406
 Cytotoxin, 297

d-amphetamine, 58
Daphnia magna, 110
 Deiodination, 8
 Demospongiae, 207
 Depolarization, 207
 Detoxification, 151
 Diapause, 168
 Diazepam-binding inhibitor/acyl-CoA-binding protein, 168
 Dibutylphthalate, 133
 Dietary, 110
 Digestive cells, 188
 Digestive gland, 248

 Dimethoate, 412
 Disintegrins, 124
 Dopamine transport, 332

E. coli STa, 1
 Ecdysteroidogenesis, 168
 EDHF, 241
 Elizabeth River, 406
 Embryo, 406
 Endocrine disrupting compounds (EDC), 384
 Endocrine disruptor, 8
 Endosulfan, 8
 Energy, 110
 Energy metabolism, 15
 Environmental assessment, 217
 Environmental monitoring, 384
 Epigenetics, 406
 Epilepsy, 58
Escherichia coli, 69
 17 β -estradiol, 133
 17 β -estradiol, 257
 Estrogen mimics, 267
 Estrogen receptor, 267
 Estrogen receptor-mRNA, 384
 Estrogenic activity, 384
 17 α -ethynylestradiol, 133

 Fallaxin, 393
 Fibroblasts, 225
 Fish, 8, 40, 145, 356, 375
 Flow cytometry, 194
 Frog skin, 393
Fundulus heteroclitus, 406

 G6PD, 145
 GABA and glutamate receptors, 50
 Gene expression, 168, 314
Geodia corticostylifera, 207
 Geographic Variation, 124
 Gerbil, 1
 Gill biopsies, 217
 Gills, 248, 375
 Gliotoxin, 157
 Gluconate, 1
 Glutathione, 69, 314, 412
 Glutathione peroxidase, 292, 366
 Glutathione reductase, 366
 Glutathione-S-transferase, 366

Subject Index

- Gonadotrophins, 349
- GR, 412
- Gram negative, 76
- Gram positive, 76
- Grasshoppers, 412
- Haemolysin, 207
- Heat shock proteins 70, 151
- Heat stress, 69
- Heavy metals, 398
- Helicoverpa armigera*, 168
- Hemolysin, 297
- Hemolysis, 32
- Hemorrhagic activity, 124
- HIF-1 α , 93
- Hoplosternum littorale*, 275
- Hsp70, 69, 194
- Hyperoxia, 314
- Hypoxia, 93
- IL-1, 76
- Immunohistochemistry, 151
- Imposex, 101
- In situ hybridization, 168
- In vitro, 325
- Inhibition, 145
- Island species, 117
- Kidney, 15
- Kinetics, 338
- Lactate dehydrogenase, 356
- Laying hen, 349
- Leptodactylidae, 393
- LH secretion, 325
- Lipid peroxidation, 292
- Liver, 15
- Liver peroxisome proliferation, 133
- Loach, 292
- Long-term effects, 349
- Loxosceles*, 32
- Lysosomal structural changes, 188
- Macrophages, 157
- Mantle/gonad cells, 257
- Marine invertebrates, 20
- Marine sponge, 207
- MCF-7, 267
- Mechanism, 248
- Medaka, 338
- Melatonin, 15
- Mercury, 306
- Metabolic rate, 15
- Metabolism, 338
- Metallothionein, 194, 306
- Metallothioneins, 151
- Metals, 188, 412
- Methoxychlor, 133
- α -methyl glucose, 76
- 5-methylcytosine, 406
- Microcystis*, 292
- Mitogen, 76
- Mixtures, 188
- Mohave venom, 124
- Mojave toxins, 124
- Mojavestatin', 124
- Molluscs, 151
- Morphine, 325
- mRNA, 314
- Municipal effluents, 332
- Muscarinic receptor, 241
- Muscle cells, 225
- Mussels, 188, 257, 366
- Mytilus galloprovincialis*, 366
- NADPH-independence, 20
- Na⁺/K⁺-ATPase, 375
- Naltrexone, 325
- β -naphthoflavone, 40
- Necrosis, 32, 157, 225
- Necrotic arachnidism, 32
- Neuron, 58
- α -neurotoxins, 85
- β -neurotoxins, 85
- Neurotoxins, 50
- NHE, 257
- Nitric oxide, 241
- NOS, 93
- Nucella lapillus*, 101
- Oncorhynchus mykiss*, 40, 145
- Oreochromis niloticus*, 375
- Organic chemicals, 188
- Oribatida, 398
- Osmoregulation, 375
- Ovary, 349
- Oviduct, 349
- Oxidative index, 314
- Oxidative stress, 145, 225, 292, 314, 356
- Oxygen uptake, 275
- P450 aromatase, 101
- PAHs, 406
- Pb, 398
- PCBs, 217
- Pentadactylin, 393
- Pheophorbide *a*, 297
- Phosphatidylcholine, 32
- Phospholipase, 58
- Phospholipase A₂, 32
- Photodynamic therapy, 297
- Photoperiod, 15
- Photosensitizer, 297
- Phytoplankton, 297
- Pituitary cells, 325
- PKC, 257
- Plasma, 8
- Pollution effects, 356
- Polybia ignobilis*, 50
- Porifera, 207
- Potential modulation, 58
- Primary cultured hepatocytes, 384
- Procaine, 58
- Prothoracic gland, 168
- Quantitative analysis, 177
- Quantitative PCR, 217
- Radioreceptorassay (RARA), 384
- Rainbow trout, 267
- Raphidophycean flagellate, 297
- Rat, 241
- Real-time qRT-PCR, 314
- Red seabream, 177
- Red tide, 297
- Reductases, 20
- Relaxation, 241
- Reproduction, 151, 349
- RTG-2, 157
- RTS11, 157
- Salmo salar*, 217
- Salmonid, 40
- Scorpion venom, 85
- Scutustatin, 124
- Second messengers, 58
- Seizures, 50
- Selenium, 69
- Semiquantitative RT-PCR, 384
- Serotonin transport, 332
- Serum lectin, 76
- Serum neutralization, 117
- Short-circuit current, 1
- Signaling, 257
- Silver, 306
- SOD, 412
- Spermatogenesis, 133
- Spiders, 194
- Sponges, 306
- Steroids, 349
- Stress proteins, 398
- Stress response, 375
- Sulfide, 275
- Superoxide dismutase, 194, 292, 366
- Synaptic transmission, 58
- TCDD, 177, 349
- TCDD-sensitivity, 177
- Teleostei, 375
- TEQs, 281
- 4-tert-octylphenol, 133

- Testosterone, 101, 338
Testosterone-fatty acid esters, 101
Thyroid hormone, 8
Thyroid hormone metabolism, 8
Tibetan, 93
Tilapia, 8
Tissue-expression profile, 177
Tissues, 8
Tityus serrulatus, 85
Tolerance, 110, 275
Total CYP, 20
Toxicity, 110
Tributyltin, 101

TsTX-I, 85
TsTX-V, 85

Undernourishment, 1
Urea, 145

VEGF, 93
Venom activities, 117
Venom gland homogenate, 32
Venom lethal dose, 124
Venoms, 50
Viperidae, 117

Vitamin E, 225, 314
Vitellogenin, 133, 267
Voltage-gated Na⁺ channel, 85

Wasp, 50
Water-borne, 110

Xenoestrogens, 267
Xenopus laevis, 384

Zebrafish, 133
Zinc, 110, 257, 306

AUTHOR INDEX

Vol. 141C, Nos. 1-4

- Abraham, B., 393
 Affonso, E.G., 275
 Al-Balool, F.Y., 1
 Alberti, G., 398
 Al-Ghaferi, N., 393
 Aluru, N., 40
 Amano, M., 281
 Amiard-Triquet, C., 306
 Arantes, E.C., 85
 Araujo, M.S., 225
 Augustyniak, M., 412
- Babczyńska, A., 412
 Baeverfjord, G., 314
 Bendhack, L.M., 85
 Berntssen, M.H.G., 314
 Berthet, B., 306
 Bérubé, E., 332
 Bhattacharya, B., 76
 Blagojević, D.P., 366
 Blaise, C., 332
 Blödt, S., 384
 Bols, N.C., 157
 Bonda, E., 15
 Borković, S.S., 366
 Boutet, I., 151
 Bruggeman, V., 349
 Brunaldi, K., 207
- Cajaraville, M.P., 133
 Canli, M., 110
 Carlos De Freitas, J., 207
 Carolino, R.O.G., 50
 Castro, L.F.C., 101
 Chatterjee, B., 76
 Chung, I.-K., 292
 Chwelatiuk, E., 15
 Chyb, J., 325
 Çiltaş, A., 145
 Coimbra, A.M., 8
 Conlon, J.M., 393
 Coutinho-Netto, J., 50
 Cruz-Silva, I., 225
 Cunha, A.O.S., 50
- Dailianis, S., 257
 Darras, V.M., 8
 De Ketelaere, B., 349
 Decuypere, E., 349
- DeWitte-Orr, S.J., 157
 Di Giulio, R.T., 406
 Donval, A., 151
 Dumez, L., 349
 Dutta, S., 76
- Edens, F.W., 69
 Epler, P., 325
 Erdoğan, O., 145
- Ferreira dos Santos, W., 50
 Fontainhas-Fernandes, A., 375
 Foradori, M.J., 32
 Fournier, M., 332
 Furtado, M.F.D., 117
- Gagné, F., 332
 Gagnon, M.M., 356
 Galán, J.A., 124
 Gao, W., 93
 Gao, Y., 93
 Giglio, J.R., 85
 Godinho, R.O., 225
 Gozzo, A.J., 225
- Hinton, D.E., 338
 Hisar, O., 145
 Honda, H., 241
 Hongslo, J.K., 267
- Iwata, H., 177, 281
 Iwata, T., 241
 Izagirre, U., 188
- Juliano, M.A., 225
- Kafel, A., 412
 Kaloyianni, M., 257
 Kashiwada, S., 338
 Kim, E.-Y., 177, 281
 Kim, J.-I., 292
 King, J.D., 393
 Kloas, W., 384
 Köhler, H.-R., 398
 Kondo, M., 241
 Konno, K., 207
 Koroğlu, G., 145
 Kovačević, T.B., 366
 Krasowska, A., 15
- Kristensen, T., 314
 Kullman, S.W., 338
 Kumasaka, K., 241
 Kuroda, A., 297
- Lanchote, V.L., 85
 Łaszczyca, P., 412
 Lee, J.-A., 292
 Lekube, X., 188
 Leprince, J., 393
 Li, W., 217
 Li, X.-Y., 292
 Lin, C.-H., 58
 Liu, J., 248
 Liu, M., 168
 Livingstone, D.R., 20
 Lutz, I., 384
- Mahmoud, K.Z., 69
 Mancera, J.M., 375
 Marigómez, I., 188
 Massanisso, P., 101
 Matsuda, H., 241
 Mazumder, S., 76
 McCormick, S.D., 217
 Meirelles, F.V., 225
 Meistertzheim, A.-L., 151
 Meussen-Elholm, E.T.M., 267
 Meyer, J.N., 406
 Micael, J., 101
 Migula, P., 412
 Mikolajczyk, T., 325
 Milošević, S.M., 366
 Miyazaki, N., 281
 Monteiro, S.M., 375
 Morabito, R., 101
 Moraga, D., 151
 Moroe, H., 241
 Mouneyrac, C., 306
- Nakashima, T., 297
 Nielsen, P.F., 393
 Nunes, V.A., 225
- Oda, T., 297
 Oliveira, L., 50
 Olsen, C.M., 267
 Olsvik, P.A., 314
 Onagbesan, O., 349
 Ortiz-Zarragoitia, M., 133

- Pan, L., 248
 Pavlović, S.Z., 366
 Pérez, J.C., 124
 Pérez, T., 306
 Petrov, E.A., 281
 Powell, R.L., 124
 Procopio, J., 207

 Radojičić, R.M., 366
 Rangel, M., 207
 Rantin, F.T., 275
 Rees, C.B., 217
 Reis-Henriques, M.A., 8, 101
 Ren, J., 248
 Renata Mortari, M., 50
 Reyes, S.R., 124
 Rose, T., 356
 Rosseland, B.O., 314
 Russell, D.H., 124
 Russell, W.K., 124

 Saičić, Z.S., 366
 Sampaio, C.A.M., 225
 Sampaio, M.U., 225
 Sampaio, S.V., 85
 Sánchez, E.E., 124

 Santos, M.M., 101
 Šaponjić, J.S., 366
 Seniczak, A., 398
 Seniczak, S., 398
 Shi, J., 93
 Sinha, B., 76
 Smith, E., 32
 Smith, S.C., 32
 Socha, M., 325
 Sokolowska-Mikolajczyk, M., 325
 Solé, M., 20
 Song, L., 93
 Sonnevend, A., 393
 Soto, J.G., 124
 Sousa, M., 375
 Spasić, M.B., 366
 Stamatiou, R., 257
 Stenersen, J., 267
 Suda, T., 281
 Sun, B., 93
 Szymacha, J., 325

 Tanabe, S., 177, 281
 Tanguy, A., 151
 Tanguy-Royer, S., 151
 Timme-Laragy, A.R., 406

 Tollefsen, K.-E., 267
 Tollefsen, K.-E., 314
 Tsai, M.-C., 58

 Vasconcelos, F., 85
 Vieira, M.N., 101
 Viel, T.A., 225
 Vijayan, M.M., 40
 Vuori, K., 40

 Waagbø, R., 314
 Waterland, R.A., 406
 Webb, D., 356
 Wells, R.E., 32
 Wilczek, G., 194, 412
 Włostowski, T., 15

 Xu, W.-H., 168

 Yamaguchi, K., 297
 Yamauchi, M., 177

 Zhang, G., 93
 Zhang, T.-Y., 168
 Žikić, R.V., 366
 Żukowski, J., 15